

# Weekly Inspections –Hanging Hardware

HANGING HARDWARE SYSTEM					
Component	Procedure	Fail Criteria	Corrective Action	Reference Manuals	Authorized Personnel
Nozzle Hose Breakaway	Inspect each hose, breakaway, and nozzle for loose connections or leaks	Presence of a leak	Tighten connections or replace with new product	IOM-6	<b>Nozzle, hose, or breakaway replacement:</b> GDF owner-operator or VST ASC Levels A, B, or C or EMCO Level A  <b>Component repair:</b> VST ASC Levels A, B, or C or EMCO Level A
		Presence of residue from a leak	Tighten connections or replace with new product	IOM-8	
		Visible o-ring between any component connection	Tighten connections or replace with new product	IOM-9	
CO-AXIAL HOSES					
Component	Procedure	Fail Criteria	Corrective Action	Reference Manuals	Authorized Personnel
Coaxial Hose	Inspect hoses for wear, severe kinks, cracks, splitting, and functional swivels	Kinks, cracks, splitting, non-functional swivels, or any visible openings	Replace with new hose	IOM-8	<b>Hose replacement:</b> GDF owner-operator or VST ASC Levels A, B, or C or EMCO Level A
BREAKAWAY					
Component	Procedure	Fail Criteria	Corrective Action	Reference Manuals	Authorized Personnel
Breakaway	Inspect breakaway for leaks around the scuff	Presence of a leak around the scuff	Replace with new breakaway	IOM-9	<b>Replace breakaway:</b> Owner/Operator or VST ASC Levels A, B, or C or EMCO Level A

VST NOZZLE					
Nozzle Component	Procedure	Fail Criteria	Corrective Action	Reference Manuals	Authorized Personnel
Nozzle lever, lever guard, lever lock	Inspect for defects, cuts, or damage to the:  Nozzle Lever Lever Guard Lever Lock Spout Spout Vent Hole Face Seal Interlock Rod Vapor Collection Sleeve.	Damaged or missing	Replace with new VST nozzle	IOM-6	<b>Nozzle Replacement:</b> GDF Owner/Operator or VST ASC Levels A, B, or C
Nozzle Spout		Sheared or bent	Replace nozzle spout assembly with new VST Front-End Kit or Replace with new VST nozzle	IOM-7  IOM-6	<b>Front-End Repair:</b> VST ASC Levels A, B, or C  <b>Nozzle Replacement:</b> GDF Owner/Operator or VST ASC Levels A, B, or C
Nozzle Vent Hole			Vent hole blocked	Clear blockage	IOM-6
Nozzle Collection Sleeve		If greater than 18 inches total length of cuts (if greater than .375 sq. inches of material missing)	Replace vapor collection kit	IOM-7	<b>Front-End Repair:</b> VST ASC Levels A, B, or C
			Replace nozzle with new VST nozzle	IOM-6	<b>Nozzle Replacement:</b> GDF Owner/Operator or VST ASC Levels A, B, or C
Nozzle Face Seal		Greater than 30% of the material is missing (if greater than 2.5 inches of the accumulated faceplate circumference is missing)	Replace vapor collection kit	IOM-7	<b>Front-End Repair:</b> VST ASC Levels A, B, or C
			Replace nozzle with new VST nozzle	IOM-6	<b>Nozzle Replacement:</b> GDF Owner/Operator or VST ASC Levels A, B, or C
Nozzle Front-End Kit (Collection sleeve and face seal)		Alignment lines are misaligned and/or the assembly is cockeyed	Replace vapor collection kit	IOM-7	<b>Front-End Repair:</b> VST ASC Levels A, B, or C
			Replace nozzle with new VST nozzle	IOM-6	<b>Nozzle Replacement:</b> GDF Owner/Operator or VST ASC Levels A, B, or C
Nozzle Interlock Rod		Nozzle Inspection	Interlock rod sticks during engagement or disengagement	Replace vapor collection kit	IOM-7
	Replace nozzle with new VST nozzle			IOM-6	<b>Nozzle Replacement:</b> GDF Owner/Operator or VST ASC Levels A, B, or C

# Weekly Interlock Inspection – VST Nozzles

Fueling Point #	Check A		Check B	
	Pass	Fail	Pass	Fail

Fueling Point #	Check A		Check B	
	Pass	Fail	Pass	Fail

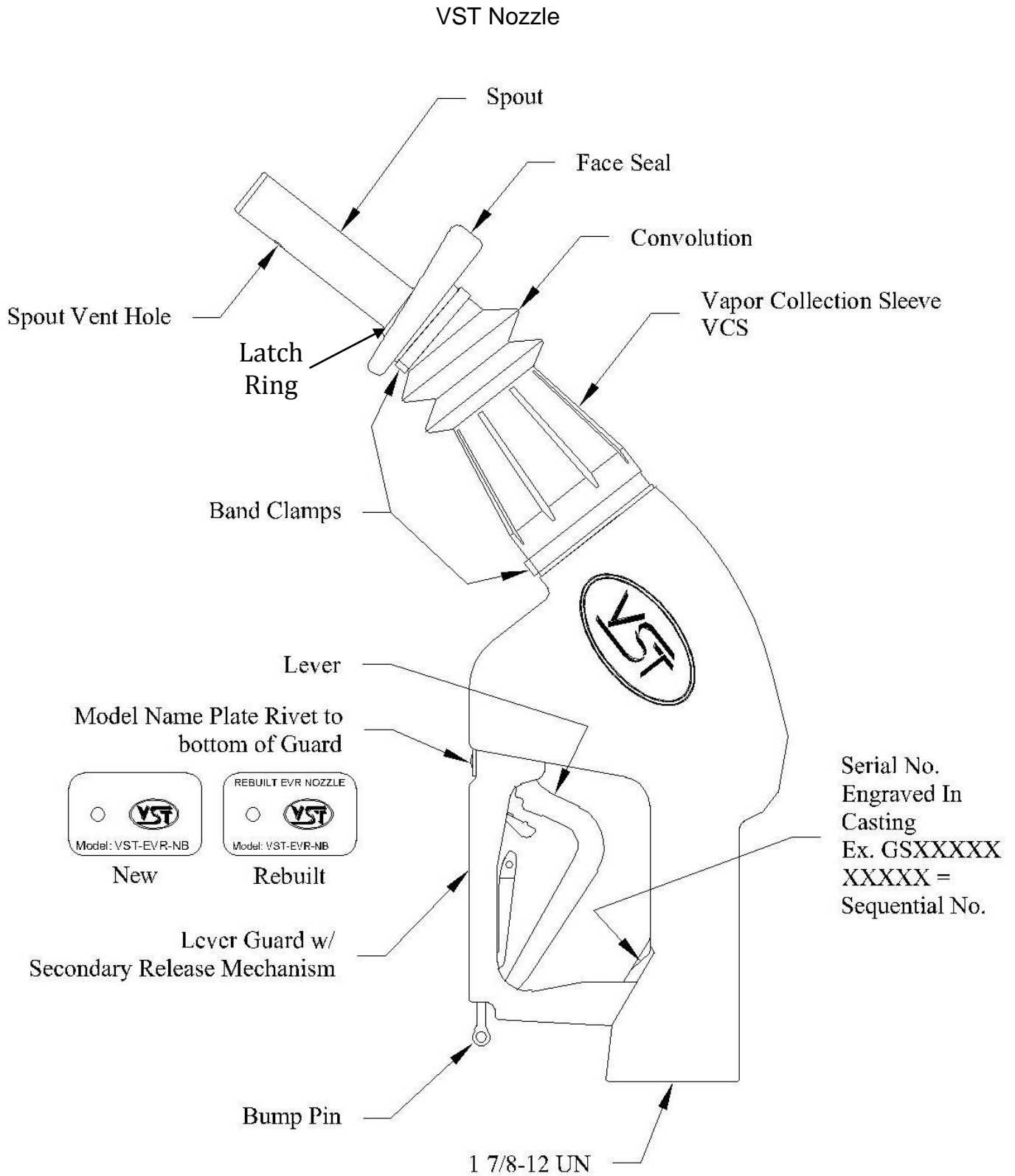
Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_ Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_

## Check A

- 1) Make sure dispenser is de-activated (**do not turn dispenser on**).
- 2) Lift the nozzle from the dispenser cradle without touching the lever.
- 3) If hold-open latch is engaged, the nozzle fails. Tag out this Fueling Point and have the nozzle immediately serviced or replaced.
- 4) Point nozzle spout into a gasoline compatible container. Do not compress vapor collection sleeve (VCS).
- 5) Pull lever to make sure there is no spring tension.  
If the lever has **no** spring tension (dead lever), the nozzle passes.  
If the lever has spring tension (live lever i.e. same as dispensing fuel), the nozzle fails.
- 6) If Check A fails, tag out this Fueling Point and have the nozzle immediately serviced or replaced. Reference nozzle installation or nozzle repair instructions in the ARB Approved Installation, Operation, and Maintenance Manual of the appropriate Executive Order.
- 7) If Check A passes, proceed to Check B.

## Check B

- 1) While still pointing the nozzle spout in the gasoline compatible container and with the dispenser de-activated, compress the vapor collection sleeve (VCS) by pressing on the face seal, and confirm the lever has spring tension (live lever).
- 2) Release the VCS and the lever. Then pull the lever and confirm the lever has **no** spring tension (dead lever). Make sure that the face seal is not caught on the spout latch ring.
- 3) If lever goes live when the VCS is compressed, and goes dead after the VCS and lever are released, then the nozzle passes.
- 4) If lever stays dead (when the VCS is compressed) **or** stays live (after the VCS and lever are released), then the nozzle fails.
- 5) If check B fails, tag out this Fueling Point and have the nozzle immediately serviced or replaced. Reference nozzle installation or nozzle repair instructions in the ARB Approved Installation, Operation, and Maintenance Manual of the appropriate Executive Order.



EMCO NOZZLE					
Nozzle Component	Procedure	Fail Criteria	Corrective Action	Reference Manuals	Authorized Personnel
Lever, Hold Open Latch, Lever Guard	Inspect for defects, cuts or damage to the:  Lever Hold Open Latch Lever Guard Spout	Damaged or missing	Replace with new EMCO latch kit or nozzle	IOM – 6	<b>Latch Kit Repair:</b> EMCO Certified Technician Level A  <b>Nozzle Replacement:</b> Station Operator or EMCO Certified Technician Level A
Spout		Sheared or bent	Replace with new EMCO Spout Kit or nozzle	IOM – 6 IOM - 7	<b>Spout Kit Repair:</b> EMCO Certified Technician Level A  <b>Nozzle Replacement:</b> Station Operator or EMCO Certified Technician Level A
Spout Vent Hole	Inspect for defects, cuts or damage to the:  Spout Vent Hole Boot Face Bellows	Vent hole blocked	Clear blockage	IOM – 6	<b>Blockage Repair:</b> Station Operator or EMCO Certified Technician Level A
Boot Face		> than 0.38 sq. inches of boot face material is missing (e.g. A triangular or similar shape in which greater than 7/16 inches of the boot face circumference is missing [accumulated])	Replace with new EMCO boot face kit or nozzle	IOM – 6 IOM - 7	<b>Boot Face Kit Repair:</b> EMCO Certified Technician Level A  <b>Nozzle Replacement:</b> Station Operator or EMCO Certified Technician Level A
Bellows		A cut across 7 consecutive bellows convolutions	Replace with new EMCO bellows kit or nozzle	IOM – 6 IOM - 7	<b>Bellows Kit Repair:</b> EMCO Certified Technician Level A  <b>Nozzle Replacement:</b> Station Operator or EMCO Certified Technician Level A

EMCO NOZZLE					
Insertion Interlock Rod	Inspect for defects, cuts or damage to the:  Insertion Interlock Rod Band Clamps Serial Plate Security Rivet	Insertion interlock rod sticks during engagement or disengagement	Replace with new EMCO Spout Kit or nozzle	IOM – 6 IOM - 7	<b>Spout Kit Repair:</b> EMCO Certified Technician Level A  <b>Nozzle Replacement:</b> Station Operator or EMCO Certified Technician Level A
Band Clamps		Damaged or missing	Replace with new EMCO band clamp kit or nozzle	IOM – 6 IOM - 7	<b>Band Clamp Kit Repair:</b> EMCO Certified Technician Level A  <b>Nozzle Replacement:</b> Station Operator or EMCO Certified Technician Level A
Serial Plate, Security Rivet		Damaged or missing	Replace with new EMCO nozzle	IOM – 6	<b>Nozzle Replacement:</b> Station Operator or EMCO Certified Technician Level A

## Weekly Inspection and Testing Checklist

Checklist results may be used to assist with filling out GDF maintenance log.			Date:	Page: _____ of _____
Dispenser Number	Unihose or Fuel Grade (circle one)	Nozzle Inspection (circle one)	Hose Inspection (circle one)	Breakaway (circle one)
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail
	Unihose 87 89 91 other _____	Pass Fail	Pass Fail	Pass Fail